PCT

Rec'd INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TS 1318 PCT	FOR FURTHER ACTION	ON See Notificati Preliminary E	on of Transmittal of International xamination Report (Form PCT/IPEA/416)		
International application No. PCT/EP 03/50722	International filing date (day)	/month/year)	Priority date (day/month/year) 16.10.2002		
International Patent Classification (IPC) or bo B65G53/22	oth national classification and	IPC			
Applicant SHELL INTERNATIONALE RESEA	ARCH MAATSCHAPPIJ	B.V.			
This international preliminary exa Authority and is transmitted to the	mination report has been per applicant according to Art	prepared by this Ir ticle 36.	nternational Preliminary Examining		
 This REPORT consists of a total of 5 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 3 sheets. 					
3. This report contains indications	relating to the following iter	ms:			
Ⅰ ⊠ Basis of the opinion					
Ⅱ □ Priority			on and industrial applicability		
		veity, inventive st	ep and industrial applicability		
IV					
VI	cited				
VII Certain defects in the	VII Certain defects in the international application				
VIII □ Certain observation	s on the international appli	cation	· .		
Date of submission of the demand		Date of completion	n of this report		
06.05.2004		15.10.2004			
Name and mailing address of the internal preliminary examining authority: European Patent Office - f	P.B. 5818 Patentlaan 2	Authorized Officer Papatheofrast			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/50722

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages				
	1-8		as originally filed			
Claims, Numbers						
	1-15		received on 02.09.2004 with letter of 02.09.2004			
	Drav	vings, Sheets				
	1/3-3	3/3	as originally filed			
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the mational application was filed, unless otherwise indicated under this item.			
	The	se elements were ava	ilable or furnished to this Authority in the following language: , which is:			
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).			
•		the language of public	cation of the international application (under Rule 48.3(b)).			
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under			
3.	With inte	n regard to any nucle o rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inter	national application in written form.			
		filed together with the	e international application in computer readable form.			
		urnished subsequently to this Authority in written form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5. 🏻	This report has been established as if (some of) the amendments had not been made, since they he been considered to go beyond the disclosure as filed (Rule 70.2(c)).	ave
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(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 4,7,11

No: Claims 1-3,5,6,8-10,12-15

Inventive step (IS) Yes: Claims 4,7

No: Claims 1-3,5,6,8-15

Industrial applicability (IA) Yes: Claims 1-15

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 2.1

D1: BE-A-881146 (HOOL VAN) 15 July 1980 (1980-07-15)

D2: US-A-4413758 (WALTERS ARMON J) 8 November 1983 (1983-11-08)

- 2.2 The subject-matter of independent claims 1,8,12 is not new in the sense of Article 33(2) PCT.
- 2.3 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

A vessel for storing particulate matter, comprising a main part (14) and, at its bottom portion, at least one discharge device (1), which comprises a converging outer shell (2) and a permeable, converging inner shell (6) positioned in the outer shell (2), the discharge device (1) being connected to the main part (14) by means of a first flange (13) near the lower rim of the bottom portion of the main part (14) and a second flange (3) near the upper rim of the outer shell (2), whereby the inner shell (6) is secured at or near its upper rim to the inner wall of the outer shell (2) of the discharge device (1).

All technical features of claim 1 are known from D1.

2.4 Document D1 also discloses (the references in parentheses applying to this document):

A vessel for storing particulate matter, comprising a main part (14) and, at its bottom portion, at least one discharge device (1), which comprises a converging outer shell (2) and a permeable, converging inner shell (6) positioned in the outer shell (2), the discharge device (1) being connected to the main part (14) by means of a first flange (13) near the lower rim of the bottom portion of the main part (14) and a second flange (3) near the upper rim of the outer shell (2), whereby the outer shell (2) comprises, at its bottom portion, a third flange (4) and whereby the lower portion (9) of the inner shell (6) is cylindrical and positioned in line with the

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central opening of the third flange (4) and extends through this opening.

All technical features of claim 8 are known from D1.

2.5 Document D1 also discloses (the references in parentheses applying to this document):

A discharge device (1) for use in a vessel for storing particulate matter, comprising a converging outer shell (2) and a permeable, converging inner shell (6) positioned in the outer shell (2), wherein the inner shell (6) is secured at or near its upper rim to the inner wall of the outer shell (2).

All technical features of claim 12 are known from D1.

2.6 Dependent claims 2,3,5,6,9-11,13-15 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows:

Document D1 discloses in page 4, line 13 to page 8, line 21, figures 1-4, the features of claims 2,3,5,6,9,10,13-15.

The features of claim 11 are described in document D2 as providing the same advantages as in the present application. The skilled person would therefore regard it as a normal option to include these features in the vessel described in document D1. Thus, the subject-matter of claim 10 does not involve an inventive step and does not satisfy the criterion set forth in Article 33(3) PCT.

2.7 The requirements of Rule 6.4 PCT are not fulfilled by the present application as multiple dependent claims serve as a basis for other multiple dependent claims.